UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF COMMERCIAL FISHERIES

CALIFORNIA FISHERY MARKET NEWS MONTHLY SUMMARY

MARCH 1968

PART II–Fishing Information*

Sea-surface temperatures, fishing and research information of interest to the West Coast tuna-fishing industry and marine scientists

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SEA SURFACE TEMPERATURE CHARTS, EASTERN PACIFIC OCEAN
MARCH 1968

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Ships Martinac

Charts

Figure 1.--Mean sea surface temperatures (°F) derived from approximately 9000 observations. Squares show temperatures at weather ship stations. Numerals on shore are temperatures at coastal and lightship stations.

Figure 2.--Deviation of sea surface temperatures (°F) from long term charts of H.O. 225. Hatched areas are colder in 1968.

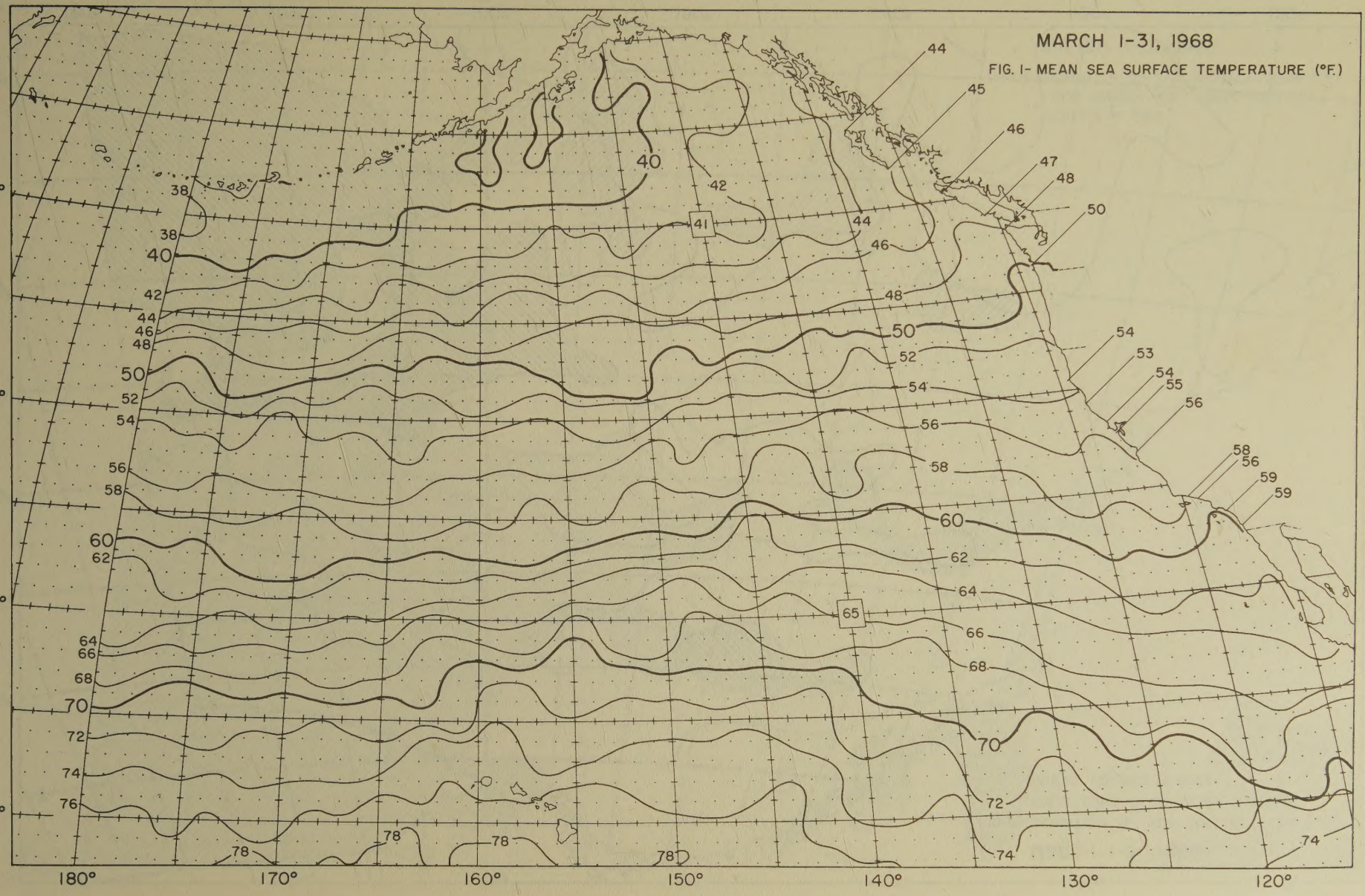
Figure 3.--Deviation of sea surface temperatures (°F) from those of March 1967. Hatched areas are colder in 1968.

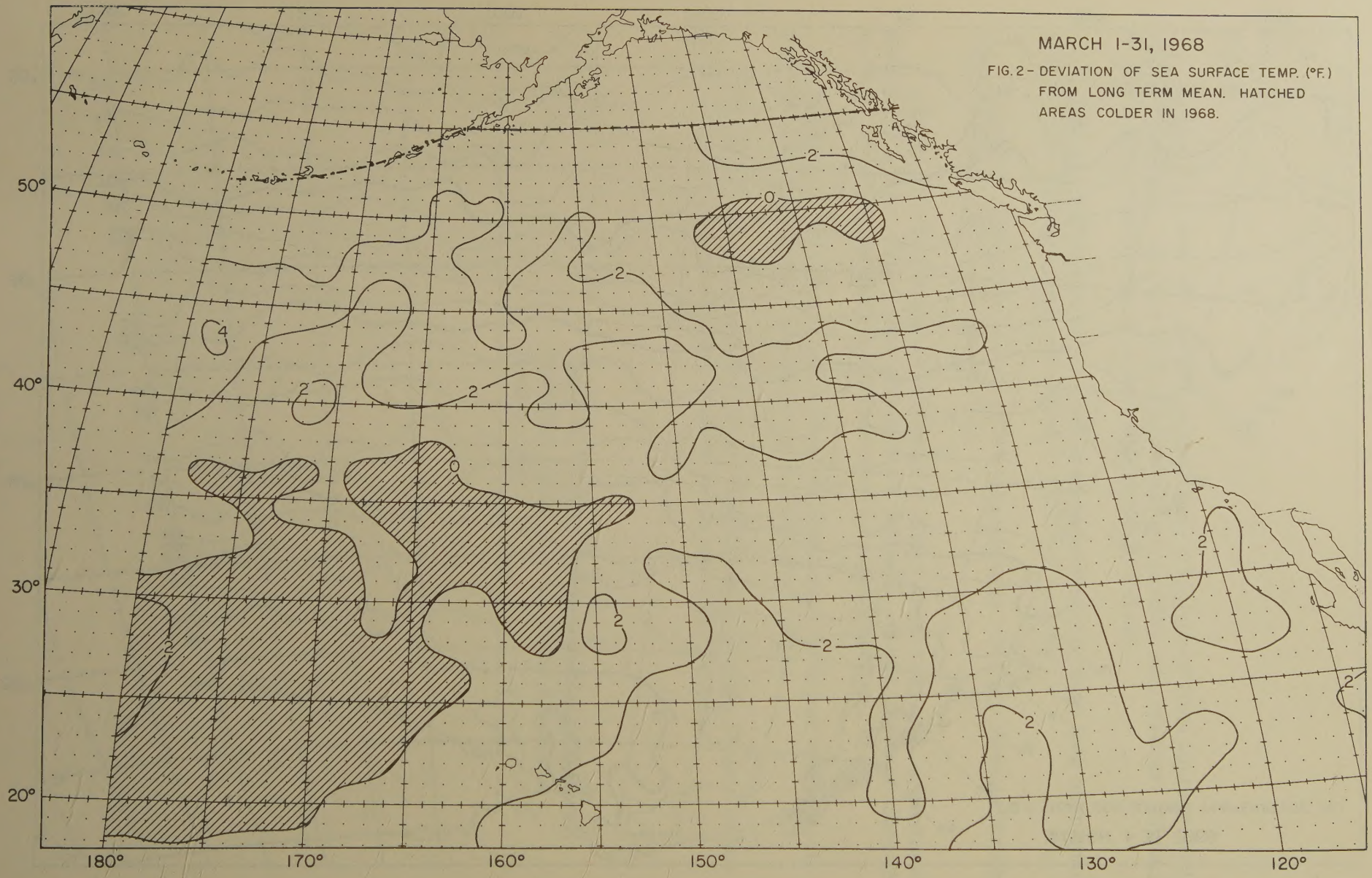
Figure 4.--Sea surface temperatures (°F) by 1-degree squares, approximately 3000 observations. Line under temperatures indicates average of two or more observations. Numerals on shore are temperatures at coastal stations.

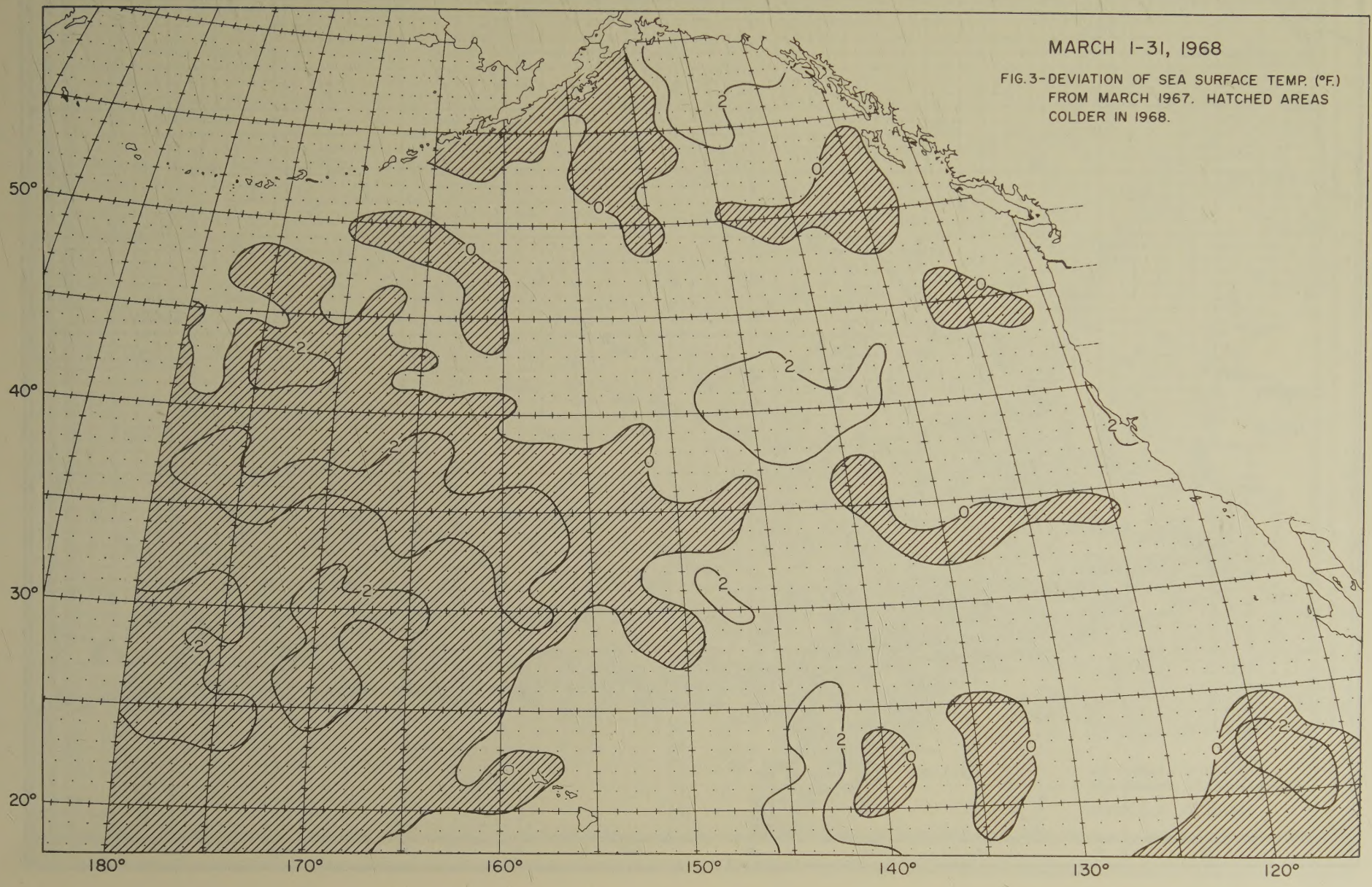
Figure 5.--Deviation of sea surface temperatures (°F) March 1968-March 1967 by 1-degree squares. Shaded areas are colder in 1968.

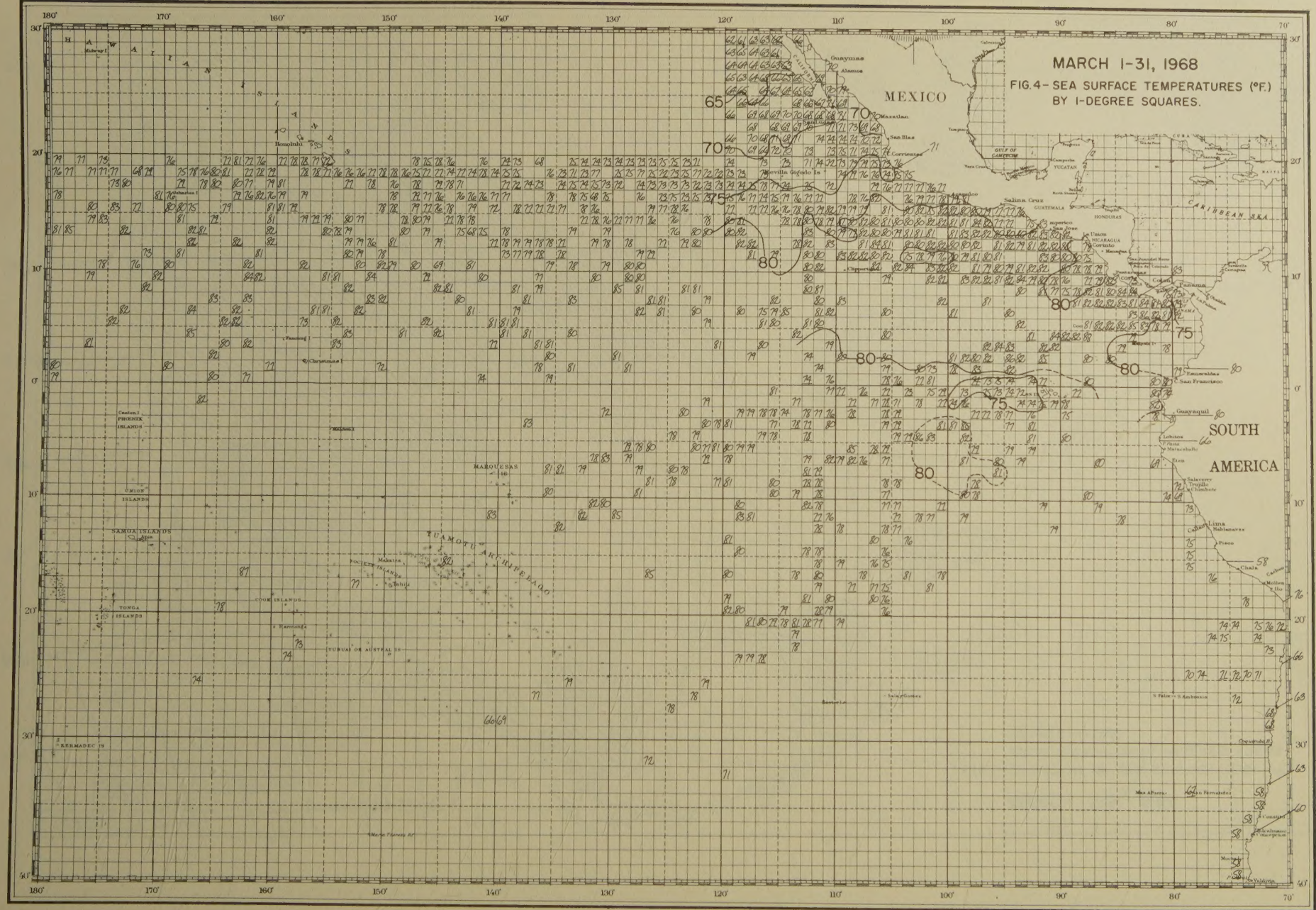
Figure 6.--Deviation of sea surface temperatures (°F) from 12-year mean (1947-1958) by 2-degree squares. Shaded areas are colder in 1968.

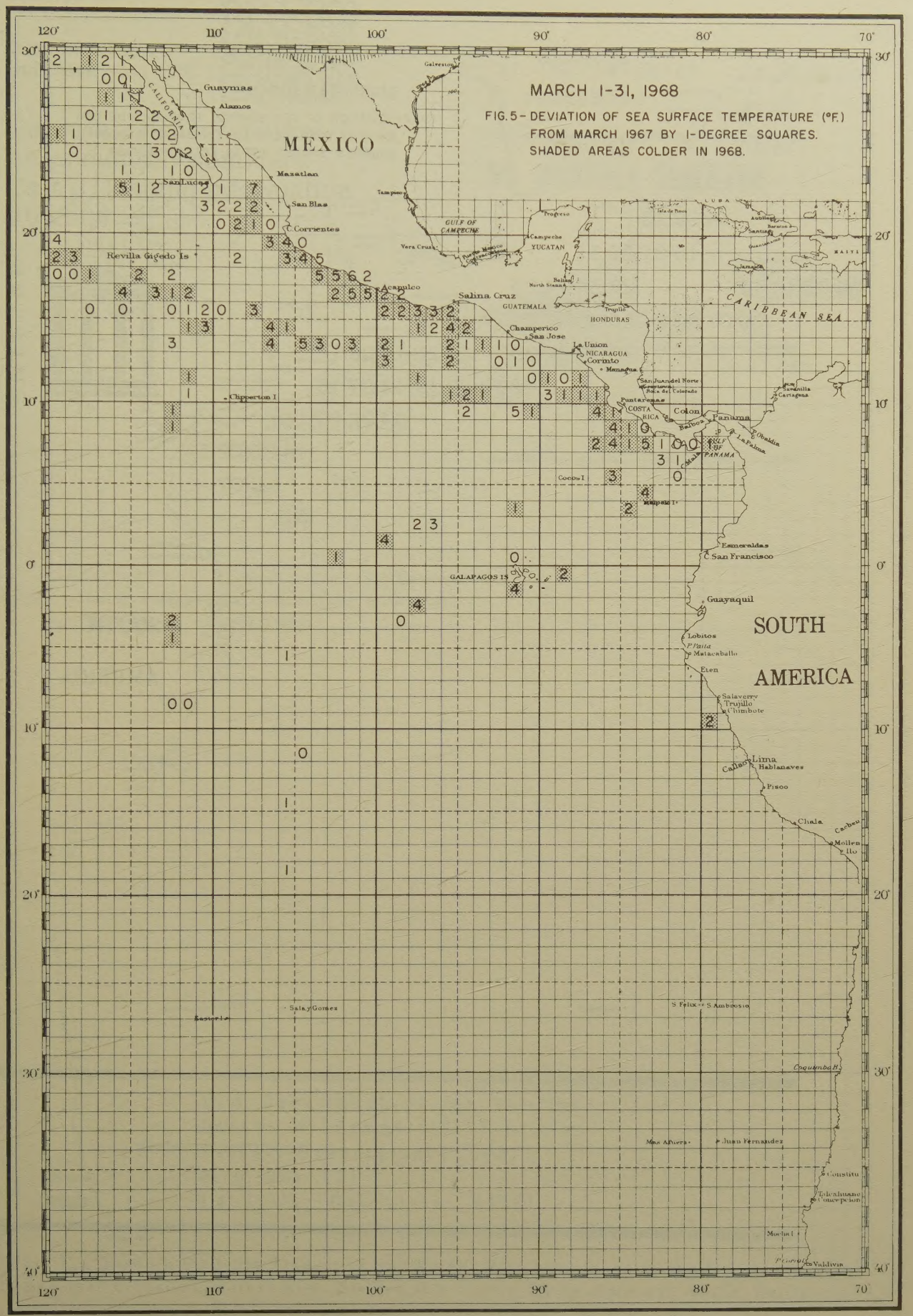
James A. Renner, Fishery Biologist (General)
Kenneth S. Raymond, Scientific Illustrator
April 8, 1968

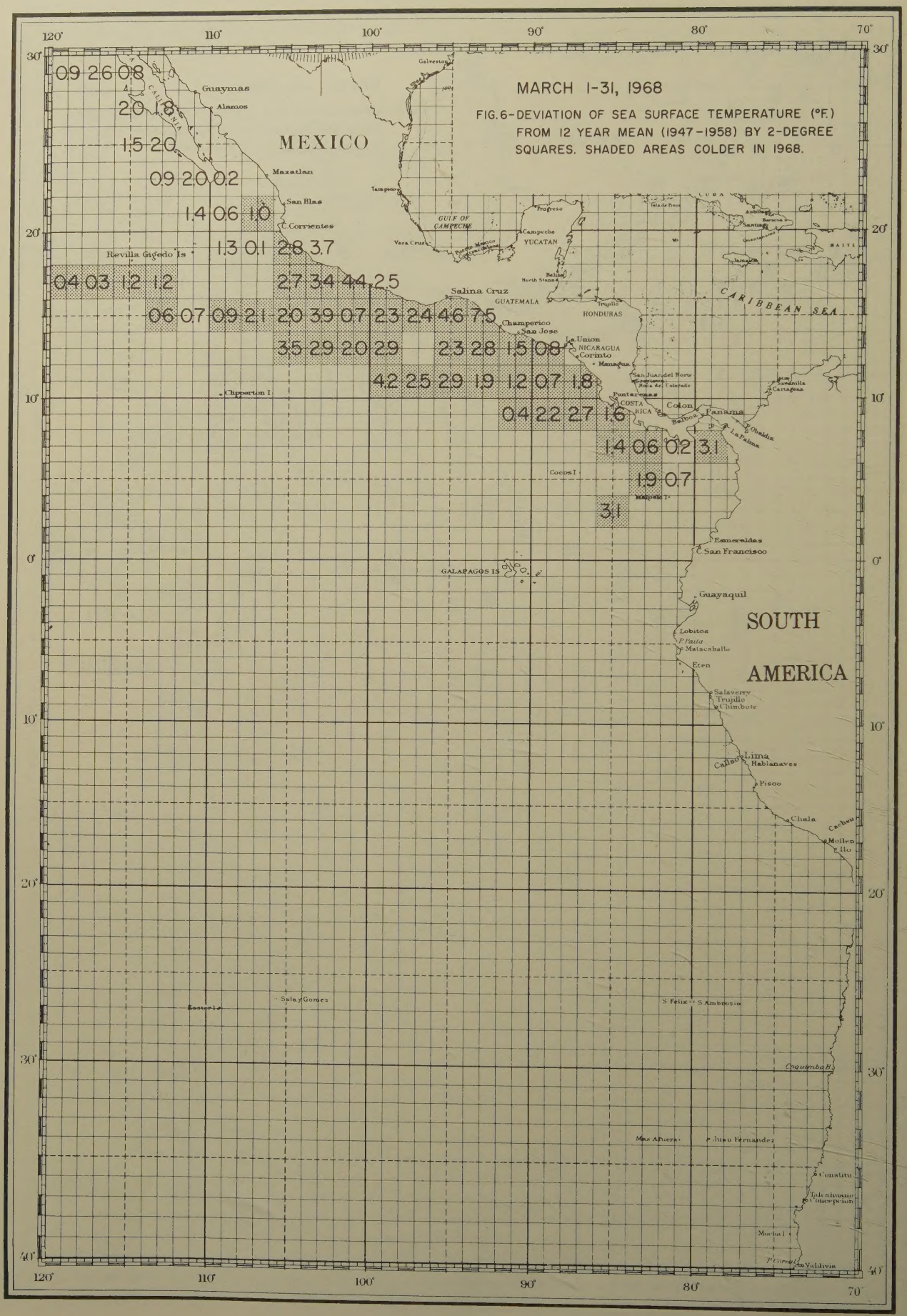

MARCH 1-31, 1968
FIG. 1- MEAN SEA SURFACE TEMPERATURE (°F.)
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
41
65


MARCH 1-31, 1968
FIG. 2 - DEVIATION OF SEA SURFACE TEMP. (°F.) FROM LONG TERM MEAN. HATCHED AREAS COLDER IN 1968.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
0
2
4


MARCH 1-31, 1968
FIG. 3-DEVIATION OF SEA SURFACE TEMP. (°F.) FROM MARCH 1967. HATCHED AREAS COLDER IN 1968.
50°
40°
30°
20°
180°
170°
160°
150°
140°
130°
120°
2
0


MARCH 1-31, 1968
FIG.4- SEA SURFACE TEMPERATURES (°F.) BY 1-DEGREE SQUARES.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
HAWAIIAN ISLANDS
PHOENIX ISLANDS
UNION ISLANDS
SAMOA ISLANDS
TONGA ISLANDS
COOK ISLANDS
TUAMOTU ARCHIPELAGO
MARQUESAS
KERMADEC IS
Guaymas
Mazatlan
San Blas
Salina Cruz
Guayaquil
Lima
Callao
Chala
Pisco
Trujillo
Chimbote
Paita
Tumbes
Honolulu
Christmas I
Fanning I
Tahiti
Easter I
Juan Fernandez
Valparaiso


MARCH 1-31, 1968
FIG. 5 - DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM MARCH 1967 BY 1-DEGREE SQUARES. SHADED AREAS COLDER IN 1968.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GULF OF CAMPECHE
GULF OF PANAMA
YUCATAN
GUATEMALA
HONDURAS
COSTA RICA
NICARAGUA
CUBA
HAITI
JAMAICA
GALAPAGOS IS
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Acapulco
Salina Cruz
Champerico
San Jose
La Union
Cornito
Managua
Puntarenas
Colon
Panama
Chipperton I
Cocos I
Malpelo I
Esmeraldas
San Francisco
Guayaquil
Lobitos
Talara
Malacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Caraveli
Mollendo
Ilo
Salas y Gomez
Easter I
S Felix
S Ambrosio
Coquimbo
Mas Afuera
Juan Fernandez
Constitu
Talcahuano
Concepcion
Mocha I
Valdivia
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°


MARCH 1-31, 1968
FIG.6-DEVIATION OF SEA SURFACE TEMPERATURE (°F.) FROM 12 YEAR MEAN (1947-1958) BY 2-DEGREE SQUARES. SHADED AREAS COLDER IN 1968.
MEXICO
SOUTH AMERICA
CARIBBEAN SEA
GALAPAGOS IS
0.9 2.6 0.8
2.0 1.8
1.5 2.0
0.9 2.0 0.2
1.4 0.6 1.0
1.3 0.1 2.8 3.7
0.4 0.3 1.2 1.2 2.7 3.4 4.4 2.5
0.6 0.7 0.9 2.1 2.0 3.9 0.7 2.3 2.4 4.6 7.5
3.5 2.9 2.0 2.9 2.3 2.8 1.5 0.8
4.2 2.5 2.9 1.9 1.2 0.7 1.8
0.4 2.2 2.7 1.6
1.4 0.6 0.2 3.1
1.9 0.7
3.1
Galveston
Guaymas
Alamos
Mazatlan
San Blas
Corrientes
Revilla Gigedo Is
Tampico
Vera Cruz
Progreso
Campeche
YUCATAN
GULF OF CAMPECHE
Belize
North Stann
Salina Cruz
GUATEMALA
HONDURAS
Trujillo
Champerico
San Jose
La Union
NICARAGUA
Corinto
Managua
San Juan del Norte
Punta Arenas
COSTA RICA
Colon
Panama
Balboa
Chipperton I
Cocos I
Esmeraldas
San Francisco
Guayaquil
Lobitos
P. Pasta
Matacaballo
Eten
Salaverry
Trujillo
Chimbote
Lima
Callao
Hablanaves
Pisco
Chala
Cachau
Mollendo
Ilo
Easter I
Sala y Gomez
S. Felix
S. Ambrosio
Juan Fernandez
Mas Afuera
Constitu
Talcahuano
Concepcion
Mocha I
Valdivia
Cuba
Haiti
Jamaica
Barbados
Santiago
Curacao
Aruba
Tela de Trax
Cartagena
Chiquimbo
120°
110°
100°
90°
80°
70°
30°
20°
10°
0°
40°